AMENDMENTS TO THE CLAIMS

No claim is amended. A complete listing of the claims is provided below.

1. (Original) A hearing aid comprising

a transceiver for interconnection of the hearing aid with a wireless network, and

a communication controller that is adapted for controlling data exchange through the network in accordance with a network protocol, and wherein

the controller is further adapted for initialisation of the network

in an acquisition mode by

controlling the transceiver to transmit interrogation data repetitively, and

upon receipt of an interrogation data received message from another device,

in a connected mode

acting as a master of the network by repetitively transmitting synchronization data at intervals that are longer than the intervals between transmitted interrogation data in the acquisition mode.

2. (Original) A hearing aid according to claim 1, wherein the controller is further adapted to act as a slave in the network upon receipt of interrogation data from another hearing aid, the other hearing aid being the master of the network.

3. (Previously Presented) A hearing aid according to claim 1, wherein the controller, in the acquisition mode, is further adapted to enable the receiver to receive data from the network in certain time periods during which transmission of synchronization data is inhibited.

4. (Previously Presented) A hearing aid according to claim 1, wherein the controller is further adapted for selective operation of the transceiver in a plurality of frequency channels.

5. (Previously Presented) A hearing aid according to claim 1, wherein the controller is further adapted for operation of the transceiver according to a time division multiplex scheme.

6. (Original) A hearing aid according to claim 4, wherein the controller is further adapted for operation of the transceiver according to a frequency division multiplex scheme.

7. (Previously Presented) A hearing aid according to claim 4, wherein the controller is further adapted for operation of the transceiver according to a spread spectrum scheme.

8. (Original) A hearing aid according to claim 7, wherein the controller is further adapted for operation of the transceiver according to a frequency hopping scheme.

9. (Original) A hearing aid according to claim 8, wherein a frequency hopping algorithm is provided that allows devices in the network to calculate what frequency channel the network will use at any given point in time without relying on the history of the network.

10. (Previously Presented) A hearing aid according to claim 1, wherein one device in the network is a master device, and all other devices in the network synchronize to the timing of the master device utilising the synchronization data.

11. (Previously Presented) A hearing aid according to claim 1, wherein a new device is automatically recognized by the network and interconnected with the network.

12. (Previously Presented) A hearing aid according to claim 1, wherein the controller is further adapted for reception of data from devices that do not receive data from the network.

13. (Previously Presented) A binaural hearing aid system comprising a first and a second hearing aid according to claim 1 mutually interconnected for data exchange through the network.

14. (Previously Presented) A remote controller for a hearing aid and adapted to communicate with a hearing aid according to claim 1 through the wireless network.

15. (Previously Presented) A fitting instrument for a hearing aid and adapted to communicate with a hearing aid according to claim 1 through the wireless network.

16. (Previously Presented) A mobile phone adapted to communicate with a hearing aid according to claim 1 through the wireless network.

17. (Previously Presented) A broadcast system adapted to communicate with a hearing aid according to claim 1 through the wireless network.

18. (Original) A binaural hearing aid system comprising a first and a second hearing aid that are interconnected for data exchange,

wherein the first and second hearing aid are interconnected through a wireless network.

19. (Original) A binaural hearing aid system according to claim 18, wherein at least one of the first and second hearing aids further comprises

a transceiver for interconnection of the hearing aid with a wireless network, and

a communication controller that is adapted for controlling data exchange through the network in accordance with a network protocol, and wherein

the controller is further adapted for initialisation of the network

in an acquisition mode by

controlling the transceiver to transmit interrogation data repetitively, and

upon receipt of an interrogation data received message from another device,

in a connected mode

acting as a master of the network by repetitively transmitting synchronization data at intervals that are longer than the intervals between transmitted interrogation data in the acquisition mode.

20. (Original) A binaural hearing aid system according to claim 19, wherein the controller is further adapted to act as a slave in the network upon receipt of interrogation data from another hearing aid, the other hearing aid being the master of the network.

21. (Previously Presented) A binaural hearing aid system according to claim 19, wherein the controller, in the acquisition mode, is further adapted to enable the receiver to receive data from the network in certain time periods during which transmission of synchronization data is inhibited.

22. (Previously Presented) A binaural hearing aid system according to claim 19, wherein the controller is further adapted for selective operation of the transceiver in a plurality of frequency channels.

23. (Previously Presented) A binaural hearing aid system according to claim 19, wherein the controller is further adapted for operation of the transceiver according to a time division multiplex scheme.

24. (Original) A binaural hearing aid system according to claim 22, wherein the controller is further adapted for operation of the transceiver according to a frequency division multiplex scheme.

25. (Previously Presented) A binaural hearing aid system according to claim 22, wherein the controller is further adapted for operation of the transceiver according to a spread spectrum scheme.

26. (Original) A binaural hearing aid system according to claim 25, wherein the controller is further adapted for operation of the transceiver according to a frequency hopping scheme.

27. (Original) A binaural hearing aid system according to claim 26, wherein a frequency hopping algorithm is provided that allows devices in the network to calculate what frequency channel the network will use at any given point in time without relying on the history of the network.

28. (Previously Presented) A binaural hearing aid system according to claim 18, wherein one device in the network is a master device, and all other devices in the network synchronize to the timing of the master device utilising the synchronization data.

29. (Previously Presented) A binaural hearing aid system according to claim 18, wherein a new device is automatically recognized by the network and interconnected with the network.

30. (Previously Presented) A binaural hearing aid system according to claim 18, wherein the controller is further adapted for reception of data from devices that do not receive data from the network.

31. (Previously Presented) A remote controller for a binaural hearing aid system and adapted to communicate with a binaural hearing aid system according to claim 18 through the wireless network.

32. (Previously Presented) A fitting instrument for a binaural hearing aid system and adapted to communicate with a binaural hearing aid system according to claim 18 through the wireless network.

33. (Previously Presented) A mobile phone adapted to communicate with a binaural hearing aid system according to claim 18 through the wireless network.

34. (Previously Presented) A broadcast system adapted to communicate with a binaural hearing aid system according to claim 18 through the wireless network.